

CLOUDINESS IN THE UPPER TROPOSPHERE, BY G. D.
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NO 81, 1961, PP 48-91.

NLL M. 3790

SCI - PHYS

OCT 62

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NCH-202 890

Field 4B, 1B

NOCTURNAL THUNDERSTORMS ON THE AIR ROUTES
OF THE SOVIET UNION. 1965, 17p, 7refs.
NLL-N, 5783.
Order from NLL as M.5783

Trans. of Tsentralnyi Institut Pregnozov, Trudy [USSR]
n81 p113-26 1961.

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Technology,
Boston Spa (England)

(NY-6875)

Theory of Long-Range Forecast Allowing
for the Vertical Stratification of the
Atmosphere and for the Turbulent
Intermixing, by S. A. Mashkovich,
Ya. M. Kheyfets, 18 pp.

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Instituta Prognozov, No 93, 1961,

JPRS 12790

Sci - Geophys
Mar 62

187, 686

On the Effect of the Rotation of the Earth on
the General Circulation of the Atmosphere, by
R. F. Usmanov.

RUSIAN, per, Trudy Tsentral Inst Prognozov,
No 104, 1961, pp 3-40.

MIL M 8482 5010

Sci - Earth Sci & Astron
Mar 63

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A Statistical Evaluation of Prognostic Equation
Parameters, by G. I. Morskoy.

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Sci - Earth Sc & Ast
22 Apr 63

Aerological Charts at Standard Levels and the
Prospects of Using Them in Synoptic Meteorology,
by R. F. bsmannov.

RUSSIAN, per, Trudy Tsentral Inst Prognozov,
No 104, 1961, pp 123-128.

NLI Ref: 5828.4 1963 (5468) (loan)

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(DC-~~ME~~6800)

Calculation of Cyclonic Movement by Initial
Pressure and Wind Fields, by A. I. Burtsev,
N. G. Leonov, 12 pp.

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Prognosov, No 110, 1961, pp 42-50.

JPRS 14039

Sci - Geophys
Jun 62

199, 327

(DC-6800)

Horizontal Wind Divergence and Its Role in
the Variation of Intensities of Surface
Cyclones and Anticyclones, by O. V.
Gusevskaya, 9 pp.

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Prognosov, No 110, 1961, pp 70-76.

JPRS 14039

Sci - Geophys
Jun 62

199, 328

On the Forecasting of Geopotential in the Upper
Portion of the Atmosphere, by S. L. Belousov,
V. G. Boldyrev, 14 pp.

RUSSIAN, per, Trudy Tsentral Inst Prognozov,
Vol CXI, 1961, pp 3-12. 9201793

Weather Bureau/T-89

Sci - Geophys
12 Mar 63

OTC 77-62-11742

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Mashkovich, S. A.
ON THE THEORY OF PRESSURE WAVES IN A
BAROCLINIC ATMOSPHERE (K Teorii Vliva Davleniya v
Baroklinnoi Atmosfere) tr. by Irene A. Donehoo,
Mar 63, 26p. 5 refs. WB/T-9S.
Order from OTS \$0.75

63-11611

63-11611
I. Mashkovich, S. A.
II. WB/T-9S
III. Weather Bureau,
Washington, D. C.

Trans. of Tsentral'nyi Institut Prognozov - Trudy (USSR)
1961, v. III, p. 13-28.

DESCRIPTORS: *Atmospheric motion, Stability,
*Barometric pressure, Atmosphere, Stratification,
Atmospheric models, *Meteorological parameters,
Mathematical analysis.

The development of waves imposed on the baroclinic
zonal flow is investigated. The problem is solved with
a numerical method for four and ten-level atmospheric
models. The results obtained are used for investigating
(Earth Sciences--Atmosphere, TT, v. 10, no. 2) (over)

Office of Technical Services

Belov, P. N.

NUMERICAL PREDICTION OF THE PRESSURE FIELD BY A THREE LEVEL ATMOSPHERIC MODEL (Chislennyy Prognoz Baricheskogo Polya po Trekhurovennoi Modeli Atmosfery) tr. by H. K. Gold, May 62, 14p, 12 refs.
Order from OTS \$0.50

62-11683

Trans. of Tsentral'nyi Institut Prognozov, Trudy (USSR) 1961, v. 111, p. 29-38.

DESCRIPTORS: *Atmosphere models, Pressure, Computers, Weather forecasting, *Air mass analysis, Statistical functions, *Barometric pressure, Temperature, Stratification.

One of the possible variants of the solution of the problem of the numerical forecast of pressure at various atmospheric levels is proposed, using an e- (Earth Sciences--Meteorology, TI, V. 8, no. 4)
(over)

62-11683

I. Belov, P. N.
II. Weather Bureau,
Washington, D. C.

Office of Technical Services

Petrichenko, L. A. and Kartashova, M. V.
ON THE CALCULATION OF OBSERVATIONAL DATA
AT CERTAIN ATMOSPHERIC LEVELS IN AN
OBJECTIVE ANALYSIS OF THE PRESSURE CONTOUR
M. P (K Uchetu Dennykh Nablyudenii na Neskol'kikh
Urovnyakh Atmosfery pri Ob'ektivnoem Analize Kart
Baricheskoi Topografii)
H. K. Gold, tr. JW 62, 6p 3rcd
Order from OTS \$0.50

TT-62-11744

TT-62-11744
I. Petrichenko, L. A.
II. Kartashova, M. V.
III. Weather Bureau,
Washington, D. C.

Trans. of Tsentral'nyi Institut Prognozov, Trudy (USSR)
1961, v. III, p. 39-43, (Abstract available)

DESCRIPTORS: *Barometric pressure, *Meteorological
charts, Weather forecasting, Meteorology, Polynomials,
Least squares method, Numerical analysis.

The accuracy of interpolation of geopotential is studied
for the purpose of an objective analysis. For the inter-
(Earth Sciences--Meteorology, TT, v. 11, no. 7)(over)

Office of Technical Services

Belov, P. N.
USE OF EMPIRICAL INFLUENCE FUNCTIONS FOR
A WEATHER FORECAST AT A SINGLE STATION
(Ispol'zovanie Empiricheskikh Funktsii Vliyaniya dlya
Prognoza v Odnom Punkte)
H. K. Gold, tr., Jul 62, 13p 14refs
Order from OTS \$0.30

TT-62-11741

TT-62-11741
I. Belov, P. N.
II. Weather Bureau,
Washington, D. C.

Trans. of Tsentral'nyi Institut Prognozov, Trudy (USSR)
1961, v. III, p. 44-49. (Abstract available)

DESCRIPTORS: "Weather forecasting, Meteorological
parameters, Hydrodynamics, Thermodynamics,
Equations, Computers, Statistical analysis,
Meteorology.

An attempt is given to work up methods of statistical
treatment of meteorological elements in their entirety
for a period of three days. A selection of types of
(Earth Sciences--Meteorology, TT, v. 11, no. 7)(over)

Office of Technical Services

On Certain Characteristics of the Zonal Circulation
of the Atmosphere Over the Northern Hemisphere
During the International Geophysical Year, by
S. A. Mashkovich, Ya. M. Kheifets, 15 pp.

RUSSIAN, per, Trudy Tsentral Inst Prognozov,
Vol CIX, 1961, pp 50-62. 9201794

Weather Bureau/T-90

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Sci - Geophys
12 Mar 63

224,820

(SF-2203)

DIVERGENCE AND CULR OF WIND VELOCITY
AND THE LAPLACIAN H AT HEIGHTS IN QUASI-VERTICAL
CYCLONES, AND ATNI-CYCLONES, BYA. N.
MERTSALOV, 18 PP.

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NO 112, 1961, PP 18-31.

JPRS 14255

SCI - GEOPHYS
JUL 62

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(SF-2202)

Prognosis of the Geopotential in the Centers
of Cyclones and Anticyclones at Heights Along
the Wind Field Taking Acceleration Into
Account, by M. M. Mineyeva, 13 pp.

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No 112, 1961, pp 32-39.

JPRS 13356

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Sci - Geophys
Apr 62

(SF-2203)

RESULTS OF TESTING METHODS OF FORECASTING
THE ABSOLUTE GEOPOTENTIAL OF THE ISOBARIC
SURFACES OF 500 AND 300 MILLIBARS, BY
T. D. SEREDA, 8 PP.

RUSSIAN, PER, ~~XMRXO~~ TRUDY TSENTRAL' INST
PROGNOZOV, NO 112, 1961, PP 40-45.

JPRS 14255

SCI - GEOPHYS
JUL 62

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Gubanova, S. I., Khalikova, G. M., and Turyanskys
N. G.
ON FORECASTING THE GEOPOTENTIAL IN A
POLYTROPIC ATMOSPHERE (K Prognozu Geopotentsiya
v Politropnoi Atmosfere) tr. by Irene A. Donchoo,
Jun 63, 13p 4refs WB/T-97.
Order from OTS \$0.50

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Trans. of Tsentral'nyi Institut Prognozov. Trudy (USSR)
1962, v. 102, p. 53-59.

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I. Gubanova, S. I.
II. Khalikova, G. M.
III. WB/T-97
IV. Weather Bureau,
Washington, D. C.

ALL (LOAN) Ref. 58 28.4
1963 (5,362)

Office of Technical Services

On a Way of Finding the Sign of the Five-Day
Air Temperature Anomaly Two Months Ahead, by
S. T. Pogozova, N. A. Sevakina.

RUSSIAN, per, Trudy Tsentral Inst Prognozov,
No 103, 1962, pp 3-15.

NLL M 5005

Sci - Earth Sci & Astron
Mar 63

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A Method of Improving the Mean Monthly Air Temperature Anomaly Forecast, by D. A. Pod,
V. F. Kozel'cheva.

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No 103, 1962, pp 16-30.

NLL M 5011

Sci - Earth Sci & Astron
Apr 63

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On Improving the Forecast of Air Temperature
Anomaly in a Season, by D. A. Fed, T. B.
Sidochenko.

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No 103, 1962, pp 31-38.

MINLL M 5007

Sci - Earth Sci & Astron
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Editorial, by V. G. Semenov.
RUSSIAN, per, Trudy Tsentr Inst. Prognosov,
1962, Vol 115, pp 3-4.
NLL 9022.551 1964 (239) (On Loan)

Aug 65

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The Occurrence of Processes in January as
a Percentage of Those Indicated by Datum
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RUSSIAN, per, Trudy Tsentr Inst. Prognozov,
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NLL 9022.551 1964 (240) (On Loan)

Aug 65

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A Study of the Continuity of the
Fields of Anomaly of the 500-1000 mb
Geopotential Thickness Using Markov
Chains for Forecasting the Mean Monthly Air
Temperature, H. H. Rafailova.
RUSSIAN, per, Trudy Tsentr Inst. Prognozov.,
1962, Vol 115, pp 107-125.
NLL 9022.551 1964 (274) (On Loan)

Aug 65

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Making Use of the Law Principle of
Analogousness in the Forecasting of Synoptic
Processes and Weather for Five Days, by
K. A. Vasyukov, et al.

RUSSIAN, per, Trudy Tsentral Inst Prognozov,
No 116, 1962, pp 13-23.

NLL Ref: 5328.4 1963 (S413) (Loan)

Sci - Earth Sci & Astron
Feb 64

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The Application of Empirical Influence Functions for
Forecasting Mean Monthly Air Temperature Anomalies, by
R. A. Vasyukov.

RUSSIAN, per, Trudy Tsentral Inst Prognozov, No 116,
1962, pp 24-33.

NLL(LOAN)Ref: 5828.4 1963 (5436)

Sci-Earth Sci & Astron
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Towards Forecasting Air Temperature
Anomalies and the Amount of Precipitation
for a Mem Month, by P. A. Fed,
T. V. Sidochenko.

RUSSIAN, per, Trudy Tsentral Inst Prognozov,
No 116, 1962, pp 41-64.

NLL Ref: 5828.4 1963 (S416) (Loan)

Sci - Earth Sci & Astron
Feb 64

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Results of Approving the New Definitions of the
Tropopause in Different Geographical Areas of the
USSR, by S. A. Porchidze.

RUSSIAN, per, Trudy Tsentral Inst Prognozov,
No 118, 1962, pp 5-12.

NLL Ref: 5828.4 1963 (5 358)
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Sci - Earth Sci & Astron
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Comparison of Tropopause Charts Compiled on the
Basis of Two Different Criteria, by N. F. Vel'-
tishchev.

RUSSIAN, per, Trudy Tsentral'nog Instituta Prog-
nozov, Vol 118, 1962, pp 19-21.

CIA S-102

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A Comparison of Tropopause Charts Constructed From
Two Different Criteria, by N. F. Veltishchev.

RUSSIAN, per, Trudy Tsentral Inst Prognozov, No 118,
1962, pp 19-21.

NLL Ref: 5828.4 1963 (5 355a)
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Sci - Earth Sci & Astron
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The Necessity for Defining the Tropopause
in Aviation Meteorology, by N. V. Petrenko.
RUSSIAN, per, Trudy Tsentr Inst. Prognozov.,
1962, Vol 118, pp 41-55.
NLL 9022.55 1964 (43) (On Loan)

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On the Question of the Displacement of
Vertically Extensive Depressions, by
T. A. Sabunina.
RUSSIAN, per, Trudy Tsentr Inst. Prognosov.,
1962, Vol 119, pp 70-77.
NLL 9022.55 1964 (35) (On Loan)

Aug 65

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Kalinin, G. P.

ANALYSIS OF THE METHODS OF ESTIMATING
STREAM CHANNEL STORAGE AND INFLOW INTO
A RIVER SYSTEM

E. F. Tourkoff, tr. Nov 63, 13p 7refs
Order from AGU \$7.50 in Soviet Hydrology: Selected
Papers, 1963, no. 1 (p. 1-13)

Trans. of [Tsentral'nyi Institut Prognozov. (Trudy)]
(USSR) 1963, no. 117, p. 3-18.

DESCRIPTORS: *Rivers, *Drainage, Volume, Meas-
urement, Equations, Numerical analysis, *Hydrology,

(Earth Sciences, TT, v. 11, no. 7)

TT-64-12443-1 (p. 1-13)

I. Kalinin, G. P.
II. American Geophysical
Union, Washington, D. C.
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Washington, D. C.

Office of Technical Services

Kalinin, G. P.
ON THE METHOD OF FORECASTING AND ESTIMATING FLOODS IN RIVERS WITH NATURAL AND REGULATED FLOW
E. F. Tourkoff, tr. Nov 63, 9p 2refs
Order from AGU \$7.50 In Soviet Hydrology: Selected Papers, 1963, no. 1 (p. 14-22)

Trans. of [Tsentral'nyi Institut Prognozov. **[Trudy]**
(USSR) 1963, no. 117 [p. 19-28].

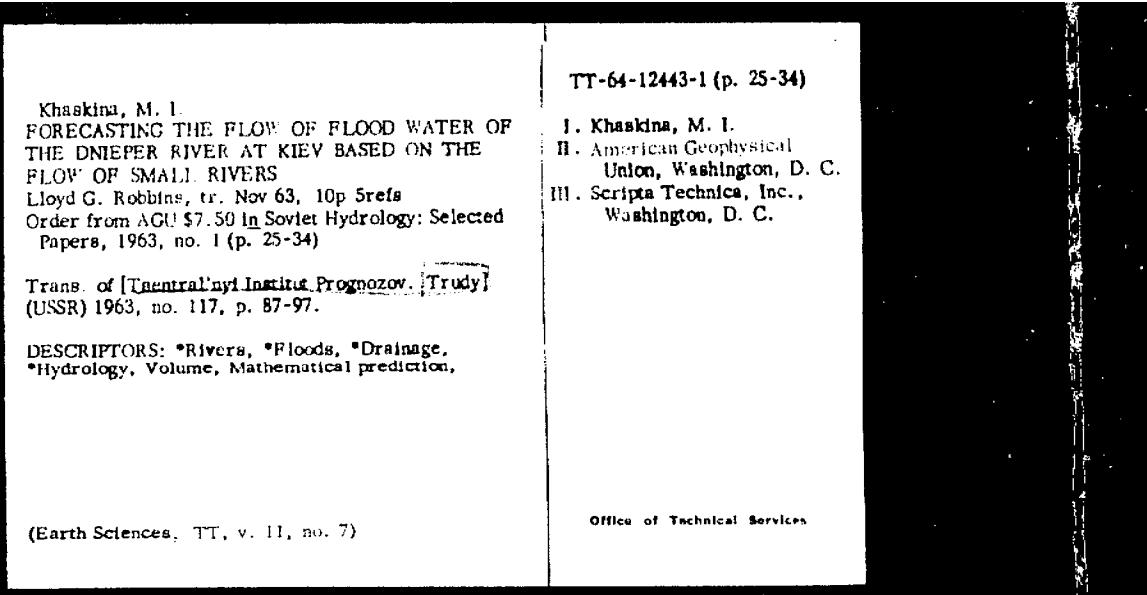
DESCRIPTORS: *Rivers, *Floods, *Drainage,
*Hydrology, Volume, Mathematical prediction,

(Earth Sciences, TT, v. II, no. 7)

TT-64-12443-1 (p. 14-22)

I. Kalinin, G. P.
II. American Geophysical Union, Washington, D.C.
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Fluctuation of High-Altitude Planetary Frontal Zones During
Natural Synoptic Periods, by M. A. Duytseva, D. A. Ped', 12 pp.

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RUSSIAN, ~~etc.~~, Trudy Tsentral'-nogo Instituta Prognozov,
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Sci-Ear Sci
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Forecasting the AT₅₀₀ for the Northern Hemisphere for
3-5 Days, by N. I. Zverev, 6 pp.

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Vyp. 120, Sinoptiko-Statisticheskiye Metody Dolgosrochnykh
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Sci-Ear Sci
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Forecasting the Deformation of a High-Altitude Planetary
Frontal Zone During Natural Synoptic Periods, by D. A. Ped',
11 pp.

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nykh Prognozov Pogody, 1963, pp 49-57.

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On the Dependence of the Maximum Wind
Layer Upon the Special Features of the
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On the Correlation Between the Wind and
Pressure Fields in the Jet Stream Zone,
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The Effect of Turbulent Exchange and Non-homogeneous Advection Upon the Formation and Dissipation of Cloud Layers, by I. Z. Lutfulin.

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An Index of the Degree of Analogy of Vector Fields,
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Results of the Operational Investigations of Various Methods
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V. F. Kozel'tseva, 19 pp.
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NLE 9022.551 1964 (225) 01-0001
JPRS 23237

Sci - Ear Sci
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Influence of Solar Activity on the Formation of Synoptic Processes,
by L. G. Borisova, B. G. Khesina, 6 pp.
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Dolgozrochnykh Prognozov Pogody, No 124, 1963, pp 28-32.
NLL 4022.551 1964 (228) in loan
JPRS 23237

Sci - Ear Sci
Feb 64

250, 752

The Use of Analogues in the Distribution of
1000-500 mb Thickness Anomaly Centres for
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ature Anomalies Over the European USSR
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NLL 9022.551 1964 (229) (On Loan)

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Forecasting Jet Streams, by N. N. Bel'akaya, 15 pp.
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Sci - Kar Sci
Mar 64 253, 022

On the Numerical Forecasting of
Geopotential for a Mean Level,
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RUSSIAN, per, Trudy Tsentr. In-ta Prog.,
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NLL 9022.55 1964 (21) (On Loan)

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On the Calculation of Non-Adiabatic Processes in
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No 126, 1963, pp 38-46.
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Sci - ES & Astron
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Nonadiabatic Factors in Short-Term Forecasting of
Lower-Atmosphere Geopotential Fields,
by V. S. Purgansky, 9 pp.
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No 126, 1963, pp 47-54.
JPRS 26792
NLL 9022.52 1964 (23) on loan

Sci-Ear Sci & Astron
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Formulation of Trajectories of Air Particles
With the Aid of Electronic Computers, by
A. I. Burtsev, I. P. Vedov, 15 pp.
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No 128, 1963, pp 46-55. 9696776
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Sci - Elec
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Some Results of a Statistical Analysis of
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teristics, by A. L. Cubukova,
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Forecasting the Geopotential Field for a
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RUSSIAN, per Trudy Tsentr. In-ta Rognosov,
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Experimental Preparation of 12-hour Forecasts of
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Wind, Cloudiness and Precipitation Fields, by
N. A. Baydina.
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1963, pp 155-1591
NLL/9022.55 1965 (60)

Sci
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Dement'ev, N. F.

USE OF UNDERGROUND WATER LEVELS TO ESTIMATE THE UNDERGROUND FEEDING OF RIVERS
L. G. Robbins, tr. May 64, 14p 17refs.
Order from AGU \$7.50 in Soviet Hydrology: Selected
Papers, 1963, no. 5, p. 437-450

Trans. of Tsentral'nyi I[nstitut] P[rognozov]. Trudy
(USSR) 1963, v. 130, p. 126-140.

(Earth Sciences, TT, v. 12, no. 11)

TT-64-12443-5 (p. 437-450)

- I. Dement'ev, N. F.
- II. American Geophysical
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Freezing in the Votkinskii Reservoir and Methods
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RUSSIAN, per, Trudy TSent, Inst. Prog., 1963,
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Estimating Moisture Supplies in Corn Fields in
the Various Climatic Zones of the USSR, by
Yu. I.Chirkov and G.V. Belukhina.
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Relation of Supplies of Available Moisture under
Corn to Meteorological Factors in the Ukraine,
by E.S. Ulanova and In. Tsao
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Evaporation and the Temperature Regime of the Air
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RUSSIAN,per, Trudy, Tsent.-Prog.,1963,
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Interception of Precipitation by Spring Wheat
During the Growing Season, by A.S.Kontorshchikov
and K.A.Eremina.

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RUSSIAN, per, Trudy Tsentral Institut Prognozov,
No 132, 1964, pp 3-40; 48-58; 54-63; 64-74.

JPRS 28245

Sci ES/A
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Taking into Account the Intensity of the Atmospheric
Zonal Circulation in the Preparation of a Monthly
weather Forecast, by Z. G. Blinnikova, D. A. Ped'.
RUSSIAN, per, Trudy. Tsentr. Inst. Prog., No 132,
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NLL/0922.55 1965 (62)

Sci
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Method of Forecasting Seasonal Air Temperature Anomalies According to their Behaviour in the Preceding Months, by D. A. Ped', Z. L. Turketti. RUSSIAN, per, Trudy. Tsentr. Inst. Prog., No 132, 1964, pp 75-92.
NLL/9022.55 1965 (64)

Sci -
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MONTHLY AIR TEMPERATURE ANOMALIES USING
INFORMATION DATA FROM A LIMITED REGION, 9 Dec 64,
8p (figs tables omitted) 6refa. Trans-304(M),
Order from NLL

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v135 p13-21 1984.

NLL 9022.551 1965 (304)

Some Features of the Distribution of Meteorological Elements in the Lower Part of the Troposphere on Cloudy and Cloudless Days,
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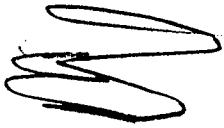
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